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TO



REMARKS on the most interesting Paragraphs

TREATISE on the GOUT;

In which the immediate Cause of a Fir of the Gour is proved, both from

OBSERVATION and EXPERIMENTS:

With the Reasons assigned, why the Gout prevails now, more than it did some Ages ago.

By Mr. DANIEL SMITH.

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T O

Dr. CADOGAN.

SIR,

Evremond wisely considered health as more desirable than the command of the world. For as certain as the one fills the mind with perpetual anxiety, the other is the sweetest source and sountain of terrestrial happiness; nor have I the least doubt but every one, who has experienced the displeasing sensations of debilitating illness, will freely and sincerely subscribe to his opinion.

As good health is then so invaluable, and of such infinite consequence to the happiness of every individual, all attempts to cultivate and establish it de-

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ferve, at least, the kind wishes of the public; and if any one is so happy, as to investigate that mode of practice, which will recover declining health, he will justly receive the applause of mankind, beside that pleasing and inexpressible satisfaction, which invariably accompanies the acts of a benevolent and good mind. Such illustrious characters were Hippocrates, Sydenham, Boerhaave, Mead, and Huxam, with many more of our own country, whose names, I doubt not, will continue, with increasing same, to the latest posterity.

To these ornaments of medical science; I could add the names of some physicians now living; but I shall purposely omit them, that I may not offend the modesty of these deserving men, nor give the world room to accuse me of intentionally paying court to any one. I highly honour the profession of physick, and sincerely think a good physician one of the most valuable members of society. As I am no ways interested in the lucrative part of that science, nor in any shape a practitioner

practitioner (if I except dispensing a few medicines among my poor neighbours without any gratuity) I may fay this, without the least imputation of giving consequence to myself in any respect whatever. When I say a good physician, allow me, Sir, to explain, in the best manner I am able, whom I mean as fuch: It is the man then of universal knowledge, a lively and penetrating genius, great integrity of mind, and a benevolent disposition; not only a man of classical learning, but a skilful anatomist, a good botanist, and an experienced chymist. The importance of a competent skill in chymistry does not depend fo much on the value of the medicines that curious art produces, as on its being a key to a comprehensive view of natural knowledge, which helps to explain, not only the cause of many diseases, but the certain method of curing them. If to these qualifications he can join the pleafing art of writing and converfing with ease and elegance, he will be the finished character I mean; and many fuch there are.

As I have just declared, that I am no professor of physick, you will perhaps expect of me an explanation of the motives that induced me to write you a letter, in consequence of the publication of your Treatife on the Gout, which certainly requires some little share at least of medical knowledge. It becomes me, therefore, to fatisfy you and every candid enquirer, which I intend to do in the best manner my poor abilities will admit of; and if, in the course of this letter, I dissent from you in any particular, believe me, fuch difference of opinion does not arise from any interested views, nor have I the least intention to detract from the merit of your well wrote Treatife: I equally condemn the artful flatterer, and the invidious defamer. Believing myself, therefore, free from those vices, you may be affured, in every article, in which I am obliged to differ from you, I will corroborate my obfervations by the most faithful narrative of circumstances, or by easy and familiar experiments.

ABOUT twenty years ago, I had a regular attack of the Gout, which feized me in the great toe; for the first fit, it was most painfully severe, and lasted upwards of a fortnight. To fay that I was much grieved at this unexpected misfortune, is but a faint description of the disquietude of my mind; indeed, I felt every displeasing sensation, that a young man might be supposed to feel, who was not more then twenty-five years of age, and extremely fond of every rational exercise. These painful reflections were much heightened by the confideration of my father's dying in this wretched diftemper, and by my strong affection for a fond, amiable, and beloved mother then lingering under the fatal torments of the fame disease.

At the time of being seized with this disorder, I was in appearance healthy, uncommonly temperate, and in constant regular exercise; for, from the nature of the employment that then engaged my attendance, I rode annual journies of near three thousand miles, beside the pleasurable

pleasurable excursions I made in the interval of those of business. For the first three fits I submitted to patience and flannel, which were warmly recommended to me, more particularly as my regularity and temperance were fo well known. These three fits were all in the compass of eighteen months; and, as they grew more painful, and their debilitating effects became more alarming, I thought it high time to apply for better affiftance, to use such other remedies as were then most in vogue, and which were thought most preventive of the Gout. I tried the Portland powders, Doves's fweating powders, antimony, mercury, and the bark. From neither of these medicines could I receive the least advantage; and the bark was very near putting a period to my life, as it did indeed to a very worthy Clergyman's, who was well known to me. The Gout still gained greatly on my constitution, and became so dreadfully severe, that it diflocated the first joint of my great toe, forced the fecond joint of my thumb out of its focket, and distorted almost every finger

finger. Under these melancholy circumstances, and not receiving any considerable benefit from the physicians I confulted, I very earnestly, and with much affiduity, entered into the immense wilderness of physick. The principal object I purfued was collecting and felecting every thing that had any relation to my distemper; and, as I have met with the distinguished good fortune to find in these enquiries most invaluable remedies, I should be ungrateful in the highest degree, were I not to acknowledge my obligations to the regular practitioners of phyfick, from whose labors I received my instructions.

HAVING premised thus much, I will, with all the candor imaginable, enter into a discussion of the most remarkable passages in your Treatise on the Gout.

PAGE 13. "That their opinion of medicine is vain and ridiculous must appear, I think, very evidently to any one who recollects that the art of physics has now been practifed more or B "less

"less regularly, above two thousand years; and most affuredly there is not discovered any one certain remedy for any disease. Ought not this to make us fuspect that there is no such thing? How can it be, when different degrees of the very same disease require various means and methods, and the same thing, that in one degree would resilieve or perhaps cure, in another might kill?

I wish I could have seen an abler pen employed on these interesting observations, as in that case I should not have troubled the world with mine; and is, in the course of them, I often mention myself, it is from necessity not choice, for certainly, a man's infirmities can be no recommendation of him to others; nor is the recapitulation of them a very pleasing task to himself.

Can it be supposed, that the benevolent and supreme Author of Nature, who has most undoubtedly supplied the brute creation creation with certain remedies* for most of their natural diseases, wholly neglected man? Does not the inefficacy of medicines applied to human use rather take its rise from the pride, ignorance, obstinacy or avarice of man himself? A dispassionate enquiry into a subject of so much consequence to the health and happiness of human nature may be well worth our pains and attention.

FROM the experience I have had in the application of medicines perfectly genuine, I am induced to believe, there are few diseases, indeed very few, but what are curable by medicine, if patients, in other respects, submit to the injunctions of a good physician. And now give me leave to return to my first question of pride.

"The blifs of Man, could pride that bleffing find,

" Is not to act or think beyond mankind."

Pope's Ethic Epistles.

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* Allow me to recommend to your ferious perusal Derham's Physico-Theology, where this subject is treated of in a manner worthy a divine philosopher, and who has very clearly and evidently proved what I have above advanced.

Would physicians in general attend a little more to this rational and elegant thought of Pope, and confine their studies more to effects then impenetrable causes, the divine art of healing might be carried to a much greater degree of exactness than it is at present, or is likely to be. The wonderful discoveries that have been made in anatomy, one might have expected would have greatly affisted physicians in investigating the nature and cure of diseases; but is this the case? Are they not as much divided in opinion as ever? Do they not still run into the fame idle hypothetic systems? Is not the doctrine of acid and alkaline injuries still unsettled? In fine, what capital point is agreed on, by which we are to judge of the real cause and cure of diseases? Where then is the advantage the medical art has collected from these divine lights? Could medicines (on which I shall soon have occasion to enlarge) be brought to one standard of purity, and the pride of man submit to attend on nature, to report that fuch and fuch constitutions, ages and fex, with fuch

fuch particular symptoms, were relieved by fuch medicines, then might be expected a regular fystem of physick, and those unhappy blunders be prevented, which too often happen by men bred to the profession, but not blest with physical penetration. With regard to medicine, is not the multitude of notorious bad ones daily vended a capital cause of the defect in curing diseases? Could Apollo himself prescribe, what would it avail, if the drugs were ineffectual? It is much to be lamented, that there does not appear any remedy for this very fatal disease. I have endeavoured, as much as possible, to trace this deadly calamity to its fource. Does it not begin with the avarice of the patient, and the confumers of medicines? For my own part, I fincerely believe, neither the druggist or apothecary ultimately to be blamed. The patient too often complains of the apothecary's bill, not confidering the fmallness of the fum he annually returns, and frequently tells him, he can buy drugs cheaper at other shops. The apothecary, in consequence, tells the druggift, he must be supplied with cheaper medicines, or he shall lose his business. Sophistication, and the introduction of ineffectual drugs, here begin. A very worthy and ingenuous druggist told me, the constant enquiry now, is more after cheap than genuine articles. Indeed, this practice of debasing medicines is become so notorious, that a person of unquestionable veracity assured me, he bought powder of Elecampane for six-pence per pound, which I am informed is barely the value of reducing it to powder, and that half of it must be coarse slour.

If these common medicines are so shockingly adulterated, what can be expected, but that those of more value will be so likewise?

What a variety of evils spring from this baneful practice! Let us suppose a physician, blest with every natural and acquired accomplishment that can adorn a human Being, sent for to attend on two patients of the same constitution, and in every particular afflicted with the same

fame malady; he writes for each to different apothecaries, one of whom keeps the best, the other inferior drugs. The effects of course will be proportionably different. The physician will be fatally deceived, not only in the present instance, but in future, and the patient most probably lose his life. If it should be said, this cannot happen within the bills of mortality, as there are inspectors deputed by authority to examine every apothecary's shop, and see if the drugs are genuine, I answer, this does in some degree check, but not cure the evil. Of the truth of this I was made sensible by an apothecary in London, whom I fell into conversation with on this subject. I asked him how he could avoid being detected by these inspectors: He candidly replied, "I always keep by me a " fmall quantity of those choice drugs, " which are most open to inspection, and " generally called for by them; fuch as " castor, bark, rhubarb, and a few others: "For (continued he) if I were to fell "thefe in the retail way, or dispense "them in common, being so inade-" quately CLOSE

"quately paid, I could not maintain my family by my business." As there does not appear any reason to doubt what this gentleman told me, let me earnestly recommend a more general liberality to the apothecaries, and of course they will give the chymist and the druggist a proper price for genuine medicines, in which case it would be highly injurious to doubt, but every shop would be supplied with as valuable preparations, as Apothecary's hall produces, which are indisputably as good as the art and industry of man can make or collect.

PAGE 14th. "The skilful in medi-"cine, and learned in nature, know "well, that health is not to be established "by medicine; for its effects are but "momentary, and the frequent repetition "of it destructive to the strongest frames."

CERTAINLY, you cannot comprehend medicine in general by these observations. If you confine it indeed to cordials, opiates, and drastick purgatives, I apprehend the learned, as well as every judicious

cious practitioner, will concur with you in opinion; but, if you really allude to every species of medicines, I believe ten thousand instances can be produced to invalidate this remark. I have been daily taking medicines for the Gout, these ten years past, without any intermission, but such as was necessary to make proper observations on the disuse of them; and I must own I do not discover the ill effects you mention; nor are medicines less active than they were the first time I took them: Therefore, to do all imaginable justice to the medical art, to enforce the truth of these remarks, and to answer the first part of your paragraph, I will give you a faithful continuation of my own case. If any thing in it may appear improbable, let me intreat you not to draw any unfavourable conclusions from it 'till you have had proper fatisfaction in every particular, which I shall always be ready to give, either to you or any other Gentleman, who will honour me with a visit at my house at Ashton; and lest any one may illiberally suppose I have some lucrative

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views in this undertaking, I declare I have none; and that, as I do not practife physick, I never will. Having greatly suffered myself from this miserable and painful distemper, I feel much for all those who labor under the same unhappy complaints. From this motive, and purely on their account, I have written these remarks: If I can establish the certain esticacy of this method of relief, which has done me such signal service, I intend to give it to the public for the benefit of my sellow sufferers. Pardon me for this digression.

You will be pleased to recollect, in the account I gave of my first attack of the Gout, that I mentioned my being uncommonly temperate, and that no man used more regular exercise: To this I may add, with much truth, that my mind was at this period as seldom disturbed as that of any one at the age of twenty-five; indeed, that time of life does not often extend a man's connections so wide, or fill his mind with such painful ideas, as are too common at a more advanced

advanced period, when an anxiety for the fuccess of his own family, and a tender feeling for the misfortunes of his friends are very apt to agitate and distract his foul, and to excite those pungent forrows which do that irreparable injury to the body you have so judiciously and elegantly described under the head of vexation.

AT the time above-mentioned, the constant liquor I drank was water; wine indeed I could not always avoid; but I fincerely declare, taking in the whole circle of the year, I did not drink one bottle a week. My food was plain in general; I eat sparingly of flesh, which I industriously avoided at supper; I kept early hours, and was not remarkably attached to my bed; notwithstanding all which I was afflicted in the fevere manner before related. The only alteration I have made in my manner of living is, that instead of water I constantly drink generous cyder, full a year old. I can therefore with propriety fay, that I am fo much relieved by the fole power of medicine °C 2

medicine as will fcarcely be believed; for instead, of three or four fits a year, which I constantly had, I have now but one; and from a debilitated and crippled state, my health and limbs are fo well recovered and established, that I can walk, with ease and pleasure to myself, for five hours with a fowling piece in my hand, and frequently wade through water up to my knees, without the least danger to my health. In the paroxysm of the Gout, and in the most excrutiating torments of a fit, I have procured myself perfect ease in two minutes, and for these feven years past I have not born the pain half an hour in each fit. It is equally furprifing, that tho' my knees have, in the course of several fits, been swoln as big as my head, they are free from callofities, and as pliant as they were at the time of my first seizure. To reconcile this phænomenon, I must tell you, that my knees were not attacked with any great violence till within these twelve years, which was about the time I began the use of an external remedy I now constantly apply; and the knees being the most

most convenient part for that purpose, I: use it there with freedom, and in considerable quantities, not that I now fear using it any where; for, in the last fit of the gout I ever had, I was exceedingly alarmed by a dreadful pain in my breastbone. I was for some time held in sufpence, whether I had best apply the remedy there, being fo near the regions of the stomach. The pain, however, at last became too excruciating to admit an alternative, and had the event been ever fo doubtful, I verily believe I should have applied it: It gave me, as usual, instant ease, and I soon recovered.

The consequence likewise of the application of this external remedy has been a discharge of at least half a pint of gouty humor, during the paroxysm. My reason for believing it to be a gouty humor arose from the following circumstances: About a month or six weeks preceding two sits of the gout, which happened to me three or four years since, there was collected, on one of my singers, and on my

my great toe, a white foft swelling, which increased to the bigness of a large cherry stone, and was of that kind of fubstance not concreted, which readily yields to a foft impression, such as you must frequently have seen in subjects much afflicted with this distemper. In the fit succeeding this appearance, I had a confiderable discharge from my knees and right elbow, when these swellings entirely disappeared. In another fit of the gout, I was feverely attacked in my shoulder, which I treated as usual, and the pain quickly left me. The day following, it came into my other shoulder. Being then deprived of the use of both arms, I was incapable of difengaging myfelf from my waistcoat and jacket; therefore could not apply the remedy: and, as the pain was not very violent, I bore it 'till I recovered the use of the anointed shoulder, from which there was a considerable discharge. The event of this experiment was, that the shoulder, which I was prevented from anointing, did not give me its perfect affistance under three months, which the other did in less than three

three weeks. Indeed it is scarcely credible, with what strength and expedition I always recover the joints treated in this manner. From these circumstances, and that I have not had one callosity formed since these discharges, I think I may fairly conclude them to be gouty a humor.

PAGE 17. "The gout is so common "a disease, that there is scarcely a man "in the world, whether he has it or not, "but thinks he knows perfectly what it is: so does a cook-maid think she knows what fire is as well as Sir Isaac "Newton. It may therefore seem need-"less at present to trouble ourselves about a definition what it is; but I will ven-"ture to say, what I am persuaded it is not, tho contrary to the general opi-"nion: it is not hereditary, it is not "periodical, and it is not incurable."

As you feem to think few people know more of the gout, than a cook-maid does of fire, and as you have made this disease so much your study, I believe there are many more beside myself, who wish you had

had given us some little light at least into the immediate cause of a sit of the gout. You will pardon me, I hope, for endeavouring to supply this defect, which I will try to do by its visible effects; and I hope, in so clear a manner, as will convince every one, who has had the gout, or will go through those plain experiments I shall point out.

CLOS TO STATE OF THE STATE OF T THE immediate cause then of a fit of the gout, I apprehend, arises from too great a quantity of acrid alkalious humors introduced into the whole mass of blood, either by the natural formation of the distinct parts of the viscera, which generate these humors in greater abundance than is or can naturally be carried off by exercife, &c. or by intemperance, which has a propenfity to generate fuch humors. A fever, in consequence ensues, by which means nature disengages itself from this load of humors, and propels it either to the extremities or to the urinary passages. In the first instance, it either forms callosities and chalkstones, or is, by the forcible action of an increased circulation, drove

drove through the cutis and cuticle: there it rests on the surface, and sometimes, when the part has been kept covered during the fit, it has been scraped off a perfect powder of chalk. In the second instance, it forms the stone and gravel: a case equally deplorable.

To prove that the blood is in this state, I will candidly communicate what I have observed in my enquiries into this matter. The illustrious Boerhaave, in his Analysis of the Blood, says, "if you " take the ferum of the blood of a person " in health, and drop any acid into it, "there does not appear any effervescence: " if you drop any alkaline body into it, "the effect is the same." From whence he concludes, that it is a perfect, infipid and neutral body. The deference I have always paid to the opinion of this truly great man, and to his experiments, produced an implicit confidence of my being in an error, by entertaining a contrary opinion. However, some time after this, I was trying fome experiments on a medicine that was fold for the stone and D gravel,

gravel, and which was certainly nothing but a strong lixivium made with lime and a fixed alkaly, that answering the fame to every experiment. Into this strong acrid alkaline body I dropt some well rectified spirits of vitriol, and there did not appear a greater ebullition, than is common in mixing of it with pure fpring water. On trying it, however, with fyrup of violets, it turned as green as grass. It is therefore apparent, that the usual method of trying alkalious bodies with acids, fometimes fails; with fyrup of violets never. On this confideration, I tried the ferum of blood with fyrup of violets, and it turned it likewife green.

IT is true, the ferum of all blood turns green with fyrup of violets: however, I took equal quantities of the ferum of blood from a healthy subject, and from one in a violent fit of the gout: The latter was much greener than the former; from whence I conclude, that there is more of an alkaline body in the one than in the other. Not altogether fatisfied

fatisfied with this experiment, I took four ounces of blood immediately from the arm of a healthy subject, which I directly distilled in a retort. I then took exactly the same quantity of blood from a man in a violent fit of the gout: This I treated in the same manner, with the same degree of fire, and continued it the fame time. The event of this operation was, that the blood of the gouty man produced full one quarter part more of an alkaline spirit, than that of the man in health. I am aware, that fire will generate an alkaline body, where there is none. However, these two experiments being well confidered, I apprehend will nearly establish the truth of what has been advanced.

If there are any, who, from these experiments, may injudiciously conclude, that, as the blood of a person in health is alkalescent, an additional quantity cannot be injurious, give me leave to observe to such persons, that a certain dgree of heat is necessary to preserve animal life; that if it is below one cer-

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tain point, it congeals the blood; if above another, it causes putrefaction and death.

It is also well known to every judicious practitioner in agriculture, that if you lightly sprinkle the fields with good manure, it will remarkably fertilize the ground; but, if you lay it on thick, it will certainly destroy the herbage it ought to nourish. I grant there is a considerable difference between the objects in comparison: However, I believe, the fimilitude is a just one. A variety of other familiar experiments might be produced, both from art and nature, were it necessary; but these I hope will be fufficient to convince you, and every unprejudiced reader. I have made experiments on the blood of a great variety of animals, and they all appear to possess the fame quality, even those that live entirely on acescent food, as horses, oxen, deer, and sheep: It is therefore apparent, that the all-wise Author of nature intended it should be so; and indeed, if you confider, that out of this foft liquid ferum

are formed the bones, horns, hoofs, and feathers of all animals, which are apparently alkalescent bodies, we must cease to wonder.

As the matter now under consideration, is of great moment, in order to form a clear conception of the immediate cause of a fit of the gout. I shall relate every thing that occurs to me on the subject, which I hope will not be thought tedious. The following pertinent narrative I had from Mr. Wells, a chirurgeon in Bristol, a man that does honour to that very useful and ingenious profession. A patient of his had for some years been most remarkably troubled with worms: He was likewife a gouty subject, and died of that complaint in his stomach. The friends of the deceased were exceedingly defirous the body should be opened, in order to be satisfied in regard to the first complaint. This Gentleman was fent for to affift in the operation. On the body's being opened, there did not appear any traces of worms; but Mr. Wells obferved, "that the gall bladder was full " three

" three times as big as usual, the bile of 41 the confistance of very thick batter, and "the whole alimentary tube was be-" smeared with a large quantity of the " bile." That bile is of an acrid alkaline nature, no one I believe will deny, and may not this be one natural reason for the gout in many people? It is to be wished, that diffections of gouty subjects were more common, as the strictly ascertaining this particular, might be a means of fettling this disease on a scientifick footing, then indeed all gouty people would, with the affistance of a good physician, stand a fair chance of receiving benefit, and even now, from the knowledge I have of this disease, I would recommend such a skilful attendant; for, certainly, the confideration of faving a few guineas is miserable economy, where life and health are at stake.

To return to the subject, let us now take a view of a person much afflicted with this deadly distemper, who has submitted to patience and flannel, and who has not been able, from the nature

his debilitated state, to use much exercise, are not his joints swelled with callosities, or filled with chalkstones? That this is an alkaline body likewise, every one may be fatisfied by the following plain experiment. Take some of the white substance from the joints of a gouty man, and put it into a little phial bottle; into another bottle of the same fize, put some common chalk, of about the same bigness; into each bottle drop some wellrectified spirit of vitriol, and you will foon fee a violent ebullition in each of these two bodies nearly the same; and, if you add enough of this spirit, the alkaline substance will be entirely dissolved. You will perhaps, say, all gouty subjects have not the appearance I allude to. This I will not deny; but they have then what is still worse, the stone and gravel, which are also alkaline bodies.

FROM what has been faid, and proved by experiments, is it not clear and apparent, that the blood of gouty people abounds too much with alkalesent humors? I have, indeed, been somewhat

more particular in this matter, because it has been afferted by many people, and fome too who might have been supposed to be well versed in the laws of nature, that the gout proceeded from an acescent disposition of the blood. This most certainly is impossible, and if there are any still in this belief, which may have an injurious tendency to persons of a gouty habit, let me fatisfy them by the following experiment. Take fome of the ferum of the blood, both from a healthy man, and from one in a fit of the gout; drop into each fome fyrup of violets, and mix it well, in which case, if the compound liquor does not incline to a red colour, be assured there is not the least acid in it, which will be evidently confirmed, by dropping some syrup of violets into any acid liquor, as that will in every instance turn of a red colour.

As to the gout not being hereditary, it is a matter not worth contending for. You allow, that we receive from our parents constitutions similar with theirs, and I think I may venture to say, there

are thousands beside myself, who cannot account how they came by the gout, unless it was through this channel. I have a fifter now living, who has been as much afflicted as myself. She was not more than forty, when she was first attacked with the gout, and now is not old. Few women were ever more temperate either in eating or drinking, and she beside used full as much exercise as most women in common, who are not obliged to earn their bread by the labour of their hands. It is likewise strange, that one of your extensive practice has not feen many women troubled with this disease: it has been my misfortune to have known many in the circle of my connections, which is not very large.

THAT it is radically curable in every fubject, I much doubt: there are some, I believe, who have acquired it entirely by indolence and intemperance; these indeed stand the fairest chance of such a cure. I believe your remark, that it is not periodical is very just.

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PAGE 26. "They fancy too, that "there is a great variety of constitutions, "with diseases unavoidably peculiar to each; that certain times of life must produce many, and that it is impossible to grow old, without sickness of fome kind or other. There is cer-tainly no foundation in nature for any of these opinions; nor is there any real essential difference of constitutions, but of strong or weak, and this is produced more by habit than nature."

If there is not a great variety of conflitutions, how can you account for that effential difference, which is so visible in the colour, disposition, and affection of human nature? For instance, one person's hair is black, another's white, and another's red; and from these colours it is divided into innumerable shades. The skin of one man is as fair as alabaster, that of another's is as brown as a Mulatto; one man is as bold as a lion, another is as timid as a hare; see one man generous and noble, while another is penurious and mean; a passionate love for

for the amiable fair fex prevails in one man, while another wretch hates them; this you fee always chearful, another forever gloomy; and whence can these so apparent differences arise but from different constitutions? Will not a nice examination into the animal machine (without the aid of metaphysical reasoning) give us some light into this visible diversity in mankind?

IT has been before observed, that all the folid parts of an animal are produced from the ferum of the blood, and that this is a compound body I shall not take any pains to prove, as it so evidently appears to be formed by the united affistance of the liver, the pancrea, the faliva glands, &c. &c. May not then the different proportions of these bodies, in different people, produce the diversity above-mentioned; as you will certainly allow as many different compounds may be made with the liquors from these several parts of the animal ceconomy as there are visible differences in mankind; and as each more or less E 2 prevails prevails, so do the colour, disposition, affections, and the disease peculiar to each. That the mental faculties are affected by these parts of the animal machine: and these parts by the mind, the following well-attested relation will prove. I had it from a Lady near Bristol, of great candor and distinguished fine fense, who told me, she was nearly connected with a Gentleman, who was accidentally entangled in an unlucky affair, from which he could not difengage his thoughts, with all the affistance of his own reason, and the arguments of his friends: it therefore preyed on his mind, and his health visibly declined. Here all the means, that human skill could exert, were tried in order to preferve a man exceedingly dear to his friends, and valuable to fociety: the medical art failed, and he died. The friends of the deceased directed the body to be opened, to see if possible what was the cause of his death; when it appeared, that the spleen was entirely wasted away.

To illustrate this farther, be pleased to consider the very extraordinary transformation of an egg into a chicken; who could have conceived, from the meer force of finite reason, that in appearance a meer simple, insipid, homogeneous body, without any fign of life, by the affistance of either a natural or artificial heat of 96 degrees, by Fahrenheit's Thermometer would, in the space of twenty-one days, be converted into a perfect living animal, formed with every member peculiar to these creatures, with a diversity of coloured feathers, with a beak and claws, as hard as horn, and with all the paffions and fense observable in animals? If the white of an egg, therefore, produces this amazing variety observable in a fowl, can it be wondered at, that so visible a compound body, as the ferum of the human blood, should give the different constitutions, and of course diseases in man?

Now, to prove evidently the amazing effect of compound bodies, even in their nature fimilar, allow me to infert the

the following experiment, well known to every adept in chemistry, and every assay artist.

TAKE a thin folid piece of gold, and put it into a cucurbite, to this pour in fome strong spirit of nitre, and keep it in a warm place some little time, and you will find the gold just the same as it was at first: repeat the experiment, in the same manner. with strong spirit of salt, and the event will be similar. Now take the two acid spirits abovementioned, mix them well, and proceed as before: you will then see this very ponderous, solid mettle, entirely dissolved, which was not before the least affected by either of these bodies separate.

LET these evident operations of art and nature teach us not to pronounce hastily of things not ascertained by demonstration and experiment. I am now come to your observations on indolence, which I have considered with infinite pleasure. It will not, by any means, depreciate your performance, by saying, that

that every confiderable author, that has treated of the gout, has inculcated the fame doctrine; on the contrary, the concurrent and undivided opinion of so many learned and judicious men puts it most evidently out of doubt. I must beside do you the justice to say, that you have new dressed the subject, and have given, to just and profound reasoning, all the grace and elegance of sine writing. I most sincerely wish it was read and observed both by the healthy, and infirm: the first it would be a means to keep in that most desirable state, and the last would, at least in some good degree be restored.

FROM this, I shall pass on to your consideration of intemperance; and, tho' there are in it some very judicious and useful instructions, there are others also that I cannot help thinking, if attended to, will be not only exceedingly injurious to gouty people, but pernicious to those in health; and as I have positively no views in this publication, but the happiness of society in general, and of the gouty in particular, I shall do the

best I can to point this out. I am not, however, so tenacious of my sentiments, but that I wish every one may dispassionately compare what has been said by you, and afferted by me, in either case: if they should from experience prove the truth of this controverted point, it is to be hoped, for the benefit of people in general, that they will publish it with the honourable testimony of their names.

PAGE 59. "It may here be necessary " to enumerate fome of those things " called acescents. These are sweets of " every kind, puddings, cakes, pastry, " creams, confections, &c. and every "thing made of flour, especially fer-"mented; bread, in particular, so far " from being the wholfome thing many "imagine, is not only unwholfome by "its acescency, but by the strong fer-" ment it contains: it forces into fer-"mentation every thing capable of it, "that it meets with in the stomach." To which is subjoined the following note: "Whoever requires proof of this, 66 may have it by the following experi-" ment:

"ment: Put a common toast into half
"a pint of water, and let it stand six or
"eight hours near the fire, so as to be
kept in the heat of the human stomach,
"and it will be sour as vinegar."

I will not controvert the truth of your experiment: admitting it, therefore, to be true, pray what is it the poor people of England, Scotland, and Ireland, principally live on, but this very acescent bread? or, what is equally acescent, the flour of beans, peas, wheat, barley, rye, and oats, made into pies, puddings, cakes, &c.? with this they join potatoes and milk in great quantities, both which are acescent, beside the whole tribe of vegetable substances, all of which are likewise acescent, if we except leeks and onions, which make but a very inconfiderable part of their diet. I exclude from this remark the common beggars; for it is a notorious truth, that they live in indolence, and riot in luxury: I mean only the industrious poor, who are certainly the most robust and healthiest inhabitants of these islands, freest from diseases. F

diseases, and strangers to the heartburn; for the truth of this, I appeal to every one, who has made any enquiry into this matter. A Gentleman of nice observation, who has vifited most parts of Great-Britain, as well as Ireland, affured me, that he had converfed with people, whose families had not eat a pound of cheese in a week, nor tasted either fish or flesh for a month, but that their food was barley bread, milk and potatoes; yet were they remarkably healthy, and had fine florid complexions. This is likewife the case with the European poor, on the continent, as can be well attested, Give me leave now to travel with you among the Afiatics, a people you have properly remarked as free from the gout, and all chronic diseases. Is not their food mostly rice, milk, and roots of various kinds? all which are likewise acescent? With these they join not only occult, but manifest acid fruit, which that country produces fpontaneously in great abundance, fuch as tamarinds, citrons, oranges, lemons, pine-apples, plumbs, cherries, grapes, and a multitude

of others; all of which are kindly given by the Divine Author of Nature, evidently to counteract and prevent the putrid and pestilential disorders common in that country. To these remarks, allow me to add, that the whole atmofphere, when in a benign state, is replete with acid particles. As this affertion will perhaps feem strange, if not improbable, to people unacquainted with nature, and its curious and furprising productions, I will take the trouble to transcribe, from Doctor Cramer's art of affaying metals, the process of making nitre, which clearly demonstrates the fact, and from whence some very useful inferences may be drawn.

"CHOOSE a place quite open to the air; however, a field or a garden will be best. Upon the area of it, which must be eight foot long, and as much broad and deep, build a small hut of mud, having its top thatched with thraw, and sloping, to shelter it from the falling rains. Let the height of it, from the ground, be such that a F 2 "man,

" man, standing upright, may walk un-"der the roof. Let a door be made, "through which the artificer may get "into the faid hut, and that may be " opened and shut. Beside, leave here " and there in the walls small windows, " with small shutters to them, that you " may at pleasure admit or keep off the " air from it; against the right and left, "and hinder walls of this hut within, " contrive square partitions, two feet "long, as much broad, and one foot " deep, divided with wooden boards, " one inch and half thick. Fill them "with a composition made with the "ashes of burnt vegetables, lime, and "horse-dung, mixed up with urine. "This composition being the matrix for "nitre, a pound of it, if the winds are "north-easterly, and not very cold, will " in two months produce two ounces of " nitre."

Lest any one may suppose, that nitre ultimately existed in the above composition, before it was exposed to the air, it will be necessary to mention a well known

known experiment; that if you expose to the air the very body, from which the acid spirit of nitre has been drawn, it will attract the acid again, ad infinitum? This process clearly proves, that the air is replete with acid particles, and its falubrious quality is proved by the testimony of the best historians, who have observed, without knowing or assigning the cause, that in those countries, where the plague prevails, when the winds have shifted from the south-west (at which time the air is destitute of acids) to the north-east (which brings with it acid particles, in great quantities) this disease vanishes immediately. and the the form Collection of angle

As the winds in the eastern countries continue in these quarters a long time, and is certainly one cause of pestilential disorders, may not the perpetual shifting of the winds in England be the reason we are so seldom afflicted with this calamity? To return to the observations on acids, give me leave to add what the learned and judicious Huxbam has said

of bread,* and if my testimony will have any weight with my brethren in assistance (the gouty) I now do sincerely declare, that, for seven years past, I have every day, about half an hour before dinner, drank half a pint of warm water, moderately acidulated with spirits of vitriol, and with what advantage, I refer the reader to the before-mentioned particulars of my own case, to which, however, I will add, that this remedy cured me of the heartburn, after having tried the whole tribe of alkalies in vain.

often thought has missed many a gouty person, who has been prevailed on to take any thing acid; for if the blood at that time is replete with gouty humor, the acid immediately agitating the animal juices in the first passages, soon

The second sold in the second

commu-

^{* &}quot;The animal humors naturally run into diffolution and putrefaction, unless prevented and corrected by daily supplies of acescent aliment: a diet merely of selfeth, sith, spices, and water, will very soon bring on a putrid sever. Bread is not only the staff of life as nourishment; but as it also corrects by its acescent quatity the rank juice of animal sood."

communicates it to the whole mass of blood, which precipitates a fit, not much unlike what may be observed, by pouring a little spirit of vitriol into oil of tartar, which it instantly sets in a ferment, and drives the alkaline salts to the bottom.

Ir these people would but reflect a moment, I think they would be fenfible that a little acid could never do fo great an injury; and, from what I have so candidly faid of myself, they will be convinced it is impossible; for if acids manifestly did any injury to a gouty habit, in what a wretched condition must I have been, who have taken such prodigious quantities both in medicine and in acescent food? Let us therefore not attend to founds but things; by the first we may be misled in the course of that specious reasoning, which is in the power of every fine writer; by the latter we can never be deceived.

I am now come to your observation on the bread of London, which you say has a great a great quantity of four allum in it, for a proof of which you have given us the following experiment.

"Boil a pound of common London"
bread in a sufficient quantity of water
to make it thick as gruel; let it stand
to subside, pour off the clear, and boil
away all the water: the allum will be
found at the bottom."

I would willingly believe this experiment was never made by yourself; but that the multiplicity of your practice not giving you time, you committed the operation to some injudicious person, who has missed you. I wish every one else to believe the same, as otherwise it may prejudice them against other parts of your Treatise, in which are many very valuable observations.

Since I read your pamphlet, I have taken some pains to inform myself of the method of making bread, not only in London, but in other places; and I find that, in all bread made for sale, there is common

common falt mixed with it. The usual quantity is about two drachms in one pound of bread: to this we will add the vegetable falt, which all grain abound with, and is, we will suppose, about one drachm in a pound of bread. Now, as water is the menstruum of all salts, as well as that of allum, it must consequently in boiling take up these two salts, which will, from the nature of the operation, be a compound one, and is really a large quantity. Is not this the supposed allum? if not, it must be allowed, that, to distinguish the prevalence of allum in this compound body of falt, it must be, at least, twice as much as the two falts together beforementioned, and, if that was really the case, the prodigious roughness of allum is so remarkable, that no human creature could eat the bread, in which fo great a quantity was; and I verily believe, if half the quantity of allum was put in it, as there is of common falt, it would fenfibly affect the palate. But is this the case? For my own part, I eat of the bread of London for years, and I own I never discovered any roughness; nor can I recollect G

I recollect, I ever heard of any one that did.

To enter a little further into this affair. let us attend to the following calculation. If the quantity of allum used in bread is twice as much as that of the common and vegetable falt, it is fix drachms in one pound of bread. If the number of people, within the bills of mortality, is eight hundred thousand, and each person eats three quarters of a pound of bread per day, then the quantity confumed will be fix hundred thousand pound. If there are fix drachms of allum in one pound of bread, there will be confumed fourteen thousand and fixty two pound every day, which, in one year, is five million one hundred thirty-two thousand fix hundred and thirty pounds---a most enormous quantity! If we extend the calculation, and take in all the bread made by the bakers in England, I suppose all the allum in the world would not equal the fum. As I verily believe bread to be the most wholsome part of our food, I should be very forry to fee any one prejudiced against

against it from any thing that has yet been faid. If there are any fuch, I advise them, for their own fakes, nicely to confider what has been urged for and against. it; and, after that, to try the experiment you have directed, with this additional circumstance, to press out all the water that remains in the pulp, as a proportionate quantity of the falt will be in that water. I would advise this trial to be made with a pound of bread, bought of a baker most fuspected to use allum; and then repeat the same trial with a pound of bread made immediately under their own obfervation: by this means they will be enabled to ascertain the truth of what has been advanced in relation to bread.

It ought, in course, to have been taken notice of, that your remarks on meat over dressed are certainly judicious, and well supported by clear reasoning. The same must be said, with regard to your opinion of wine.

I very fincerely wish with you, that pickles, catchup, and all kinds of pro-

vocatives to eating, were banished from every table; not indeed from the acid they contain, which is absolutely necessary, if people will devour fuch quantities of fish and flesh: (for that in some degree prevents the injury fo much alkalescent food would otherwise do) the prejudice done by them is that of enabling people to eat so much more than is necessary, and consequently overloading the stomach of the animal machine, which in this particular may, with some propriety, be compared to a mechanical one, which, if you load with twice the weight it was intended to carry, will foon be demolished; whereas, if loaded with a weight proportioned to its strength, it would remain for years.

THE remarks I made on your observations upon indolence are with great propriety applicable to those upon vexation.

I will now take notice of a very capital article, which regards both the healthy and the valetudinarian, and which has escaped your observation. I wish it had been better enforced by a stroke of your pen,

pen, and treated in a scientific manner. All I shall aim at will be, to make my observations clear and intelligible. The thing I mean, is the circumstance of nonmastication. Mastication being the first act of digestion, an error here is of greater consequence, than people in general can possibly conceive. To familiarize this, be pleased to consider, if you are to work any mathematical proposition, the error but of one fingle figure, in the beginning, will introduce confusion through the whole. If you lay a bad foundation, the superstructure must be defective, &c. &c. If this is granted, then of what moment is it to regard the act of mafticating food well, before it is fwallowed! I will venture to fay, a good concoction can never be made, if this act is not well performed. Our fore teeth were given us, no doubt, to divide the food we take into the mouth; the jaw teeth, from their make, evidently point out to us, that they were intended to grind it: with these then we should separate and thoroughly mix the food, affisted by the faliva, which flows into the mouth in confiderable

confiderable quantities, if invited by this act of mastication. When this is well done, it will become a foft homogeneous mass, which, when carried into the stomach, will, by the other concurring acts of digestion, be easily reduced into good chyle, from which all the liquid and folid parts of an animal are made and supported. Give me leave now to confider, a little further, the ill consequence that must attend the not regarding this very rational act. In the first place, when the food is swallowed almost whole, it will be three times as long in concocting, as is evident; for, if you put into warm water any diffoluble body in a lump, and then divide the fame quantity into a hundred parts, how much sooner will the latter be melted than the former. In the next place, the food being of different and opposite qualities, the one will dissolve, while the other remains almost in the state it was in when swallowed. From this circumstance, perhaps, arise those disagreeable eructations, which too plainly tell you, that the food, you unwillingly taste a second time, is not digested.

digested. From this irregular concoction flow many evils and diseases, impossible to be investigated by human knowledge.

From this I shall pass on to your treatment of a patient in a fit of the gout.

PAGE 82. "If the point be to sawage "the violent raging of a present parox-" yfm, this may be fafely done by giving " fome foft and flowly-operating laxative, " neither hot nor cold, but warm, either " in fmall doses, repeated so as to move "the patient once or twice in twenty-" four hours, or by a larger dose oftner in "less time, according to the strength "and exigency. This may be followed " by a few lenient, absorbent correctors " of acrimony, or even gentle anodynes: " proper cataplasms, may also be safely " applied to the raging part, which af-" fuage pain furprizingly; with as much " mild and spontaneously-dissolving-nou-"rishment, as may keep the spirits " from finking too low. I would wish "them to fink a little, and exhort the " patient to bear that lowness with pa-" tience

"tience and refignation, 'till nature, " affisted by foft and succulent food, can " have time to relieve him. This eafy " method of treating a fit of the gout "would answer in any age; and, if the " patient was young and vigorous, and "the pain violent, there could be no "danger in taking away a little blood. "Thus, in two or three days time, I "have often seen a severe fit mitigated, " and made tolerable; and this is a bet-" ter way of treating it, with regard to "future consequences, than bearing it "with patience, and fuffering it to take "its course: for the sooner the joints are " relieved from distension and pain, the " less danger there is of obstructions "fixing in them, or their being calcined " and utterly destroyed. But instead of " this, the general practice is quite the " reverse. Oh, keep up your spirits, "they cry; keep it out of your stomach " at all events; where, whenever it rages " in a distant part it is not at all inclined "to come! As you cannot eat, you must "drink the more freely. So they take " cordials, strong wines, and rich spoon-" meat.

"meat. By urging in this manner, a great fever is raised, the pain enraged and prolonged, and a sit, that would have ended spontaneously in less than a week, protracted to a month or six weeks; and, when it goes off, at last leaves such obstructions and weakness in the parts, as cripple the man ever after. All this, I hope, will be fairly and candidly understood; for there is doubtless a great variety of gouty cases, but no case that will not admit of medical assistance judiciously administered."

In general, this treatment of the gout is exceeding proper, and well worth attending to by every practitioner of physick. If the medicines, you direct first to be given, gently encouraged every sensible evacuation, I am convinced, from much experience and attentive observation, their effects would be more fanative than mere purgatives, particularly those of the active kind, the bad effects of which are only to be allayed by some preparation of opium, whose ill consequences are still more injurious in gouty habits, as it al-

ways causes a languid circulation of the blood, when its powerful efforts are spent. By a medicine of the kind above-mentioned, I have, I suppose forty times, carried off the fymptoms preceding a fit of the gout. I take it early in the morning, and about an hour after drink a pint of green tea, as hot as I can bear, covering up myself very warm. This always encourages a gentle diaphoreses, and at the fame time acts as a urinative. The purgative part being flow in operation, never gives any notice of its power, 'till towards the middle of the day, before which time, by putting on fresh linen made very hot, and fitting up in the bed, the fweat kindly goes off without any danger or inconvenience whatever.

THE great advantage of encouraging a gentle fweat by this falutary and eafy method is extremely obvious, as it carries off those fluids ready for expulsion, and at the same time clears the capillary vessels, which, by being stuffed with acrid particles, certainly occasion that excessive pain too well known to gouty people.

people. This will still more clearly appear, if we consider, that the first fit of the gout is generally in the great toe. Here the fine capillary tubes, not defended by any fleshy substance, easily yield to the compression of the shoe against the bone; consequently the diameter of the vessels must be lessened, the particles then, which would have circulated through the large vessels, stick here and cause a stagnation, which brings on that visible inflammation in the part affected. It is also probable, that this is the reason, why the gout generally settles first in the joints of the feet and hands: as the capillary tubes are smaller there than in most other parts of the body. The good effects of gentle urinatives are likewise exceedingly manifest, as they carry off those humors propell'd to the urinary passages, which are certainly of the acrid and alkalescent kind, as appears by just experiments on human urine, and the analysis of the gravelly concretions voided by gouty people.

able in your treatment of a fit of the gout, it is the administring absorbents and anodine medicines. By the first I comprehend all alkaline powders,* and by the second every preparation of opium: my reasons for which I have already given.

Your exhortation to a patient, to bear the lowness of spirits in the paroxysm is exceedingly just, and will certainly be attended with every desirable advantage you have promised. I do not recollect ever to have seen this observation in any other author I have read on the subject of the gout. The honour of it is justly your due, and for it you are entitled to the

* If there are any people, who may conceive from what I have faid of alkaline medicines, that I entirely condemn them, I defire they will clearly understand, that I mean only in gouty cases; for I am thoroughly persuaded, if there were no medicines of that fort, the medical art would be desective. What can be more evident? for if it is necessary, that in a state of health the blood should be alkalescent, and there is a desiciency in the bile, how happily is it supply'd by medicine of this class, besides being apparently useful in many other cases!

the acknowledgments of every liberal practitioner, and all gouty people.

THE food I have taken, with most advantage in a fit of the gout, has been either water chocolate, with bread well toasted and broke into it, or with sago well boiled, with as much lemon peel as can be dispensed with, without offending the palate, to which I add the juice of half a lemon, in the quantity of a pint bason, with one or two spoons-full of either red or white wine, sweetened agreeable to the taste. With regard to myself, I never could bear even the fmell of broth made of any kind of animal; however, as there is no determined rule to direct the inclination of the palate, I suppose, that that kind of food will be very falutary, more particularly if made with the part of an animal just killed; for 'tis certain, that the animal juices grow more alkalescent, in proportion to the time it is kept after being killed. If I am thirsty (which is but seldom the case) I never drink any thing but lemonade, made by fqueefing into a quart of boiling water,

water, the juice of two middle fized lemons, with all their peel, pared as thin as possible, and sweetened agreeable to the taste. I neither drink wine by itself, or put it into my lemonade, or use any spirituous liquors during the fit, except the wine before-mentioned in the sago. If I am ever oppressed with statulencies, which are very common in a fit of the gout, I take half a drachm of sweet fennel seed in fine powder, which, if repeated constantly relieves me without any inconvenience.

I greatly admire the mode you have proposed to exercise those patients, who are incapable of doing it for themselves: your general recommendation of exercise is likewise judicious, particularly in the following paragraph, which I could not resist the pleasure of copying, as it certainly cannot be too much inculcated.

PAGE 94. "His activity need be no "more than to persevere in the habit of "rubbing all over, night and morning, "for eight or ten minutes, and walking "three

"three or four miles every day, or riding se ten, or using any bodily labor or exer-" cife equivalent to it. In bad weather "I can fee no great evil in throwing a " cloak round his shoulders and walking " even in the rain: the only difficulty is " to fummon refolution enough to ven-"ture out; and a little use would take " off all danger of catching cold, by " hardening and fecuring him against the " possibility of it upon that and all other " occasions. If he dares not risque this, " fome fuccedaneum must be used within "doors; more especially when bad wea-"ther continues any time. I recom-" mend it to all men to wash their feet " every day, and the gouty in particu-" lar, and not to lie a-bed above feven "hours in fummer, and eight in winter"

As a fuccedaneum for the exercise you have so well pointed out, give me leave to recommend the game of battle-door and shuttle-cock. However trisling this exercise may appear to some people, for my own part I do not know any one superior to it, not even that of riding on horseback.

horseback. It has beside this advantage, that it may be used at all times, and in any room eighteen feet long, the height is not fo material; because good players never play high, and, with a little practice, indifferent ones will be able to do the same. I have the more pleasure in recommending this exercise, as it is so well calculated for women, who cannot with propriety at all times use so much labor as is necessary to keep them healthy. With the advantage of its being a focial diversion, it most agreeably exercises the whole human frame by the various attitudes the players are perpetually putting themselves in, of course it creates a graceful pliancy in the joints and muscles, accelerates the circulation of the blood, and propels to the cutaneous pores all the fluids prepared by nature to pass off by this easy and falutary way; it also promotes the concoctive powers, and, if used before dinner, will admit of a confiderable share of exertion, without any danger, if care is taken not to drink any thing cold at the time, or imprudently expose the body to a cold air.

As I am on the topic of exercise, it may not be altogether unfuitable to take notice of a question often started by many people: what is the reason, that the gout prevails more in England now, than it did some ages ago? Is it not occasioned by the want of proper exercise, and by peoples' fecluding themselves too much from the ambient air? Our ancestors were certainly more intemperate livers, if we except the culinary arts, which indeed were not fo much studied then: however, this was more than balanced by the quantity of dried, salted, and fresh meat they eat, not only for dinner and supper, but breakfast likewise. They also drank amazing quantities of strong ale and stale beer, liquors full as pernicious as wine of any fort. But how different were their exercises? At that time, there were no carriages hung on easy forings, rolling on turnpike roads; no rooms covered with warm luxurious carpets; no muffs or furrs to foften and effeminate the man; no fash windows to exclude the falutary air from entering; in fine, there was not then any kind of luxury I to

to encourage that intolerable indolence fo prevalent in the present generation. At that time of life, if either a woman or a man was obliged to go a little way, it was on foot; if a greater distance, on horseback; in both instances it was good exercise, and they were beside exposed to the falubrious air, which kept them from colds, the infant of many diseases. The rooms then, even of people of fashion, were paved with stone, which, they being used to from childhood, had the same good effect of preventing colds.* Their exercises and diversions were truly masculine: the men of fashion and distinction employed themselves in military atchievements, which were exceedingly laborious: their tilts and tournament were furprifing

* It has frequently occurred to me, that great numbers of tender people get colds by fetting for two hours at a time in a cold damp church (which is often shut up for a week together) while the other six days they have immured themselves in a warm room. Would it not therefore be a good piece of economy, if a contribution was made in every parish to erect a stove in the church, by which means all the humid and unwholsome air would be rarefied, and expelled before the parishioners entered. The small expence attending this salutary plan would be amply repaid by the preservation of their health.

furprising exertions of manly strength; the use of the bow and arrow, and the art of wielding the broad fword, were necessary accomplishments for every man that ranked as a Gentleman; and thefe were violent and healthy exercises. Befide this, most people of fashion had a bowling-green adjoining to their houses, where they agreeably laboured, and spent the hours in pleasing toils. To this account might be added, many more airy, masculine exercises, which not only strengthened the concoctive powers, but certainly diffipated by perspiration those acrid alkalescent humors, which, being retained in the blood, grow alkaline and cause the gout.

I HAVE now gone through your Treatife, and have made my observations on the most interesting parts of it, with all the candor imaginable. If I have advanced any thing contrary to your opinion, it was from dear-bought experience, or a strong conviction, that it was injurious to gouty people. This I considered myself as much obliged to do, as

an honest mariner is, who has been wrecked on a hidden rock, to point out where it lies. In those particulars, which appeared to me really conducive to the benefit of gouty people, I have recommended them with fincerity, and all the warmth in my power, which indeed is nothing more than justice due to your merit. If any use or advantage should result from the remarks I have made, I shall think myself happy; and have the recompence I wish for. If, on the contrary, it can be proved, that I have advanced any thing of an injurious tendency. I will recant with the ingenuous Sydenbam, who afferted, that cathartics were pernicious in the gout, yet lived long enough to experience, in his own person, that they were particularly useful.

I am, with great Respect, SIR,

Your most obedient,

And very bumble Servant,

DANIEL SMITH.

Ashton, near Bristol, fanuary 1, 1772.

ERRATA.—Page 23. line 7, for gouty a, read a gouty. P. 27. 1. 2 from the bottom for dgree, r. degree. P. 28. 1. 1. for it congeals the blood, r. the blood will be congealed. P. 35. 1. 3. for this r. one, Ibid. 1. 18. for pancrea, r. pancreas. P. 38. 1. 15. for mettle, r. metal. P. 40. 1. 1. for this, r. them. P. 45. 1. 7. from the bottom, for is, r. are.

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